

DERWENT- 2002-294503

ACC-NO:

DERWENT- 200236

WEEK:

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TITLE: Compositions containing heteroxylan and thickening or gelling hydrocolloid, useful as texturizing agents and stabilizers in dispersions, especially foams, e.g. in food, cosmetic or pharmaceutical applications

INVENTOR: BOURRIOT S; DE LORGERIL C ; VASLIN S

PATENT-ASSIGNEE: RHODIA CHIM[RHOD] , RHODIA FOOD SAS[RHOD]

PRIORITY-DATA: 2000FR-009677 (July 24, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
FR 2811997 A1	January 25, 2002	FR
WO 0208330 A1	January 31, 2002	FR
AU 200178553 A	February 5, 2002	EN

DESIGNATED- AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
STATES: CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN  
MW MX MZ NO NZ PL PT RO RU SD SE SG SI S K SL TJ TM TR  
TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI  
FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL  
SZ TR TZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
FR 2811997A1	N/A	2000FR-009677	July 24, 2000
AU 200178553A	N/A	2001AU-078553	July 20, 2001
WO2002008330A1	Based on	2001WO-FR02373	July 20, 2001

INT-CL-

CURRENT:

TYPE IPC DATE

CIPS A23 C 13/12 20060101

CIPS	A23	C	<u>9/137</u>	20060101
CIPS	A23	G	<u>3/00</u>	20060101
CIPS	A23	G	<u>3/34</u>	20060101
CIPS	A23	G	<u>9/32</u>	20060101
CIPS	A23	G	<u>9/52</u>	20060101
CIPS	A23	L	<u>1/00</u>	20060101
CIPS	A23	L	<u>1/10</u>	20060101
CIPS	B01	F	<u>17/56</u>	20060101
CIPS	C08	L	<u>5/14</u>	20060101

ABSTRACTED-PUB-NO: FR 2811997 A1

BASIC-ABSTRACT:

NOVELTY - New compositions (A) contain heteroxylan(s) (I), partially replaced by thickening or gelling hydrocolloid(s) (II).

USE - The use of (A) is claimed as texturing agent in dispersions comprising at least two immiscible phases, specifically where at least one phase is liquid and the other is a gas. Also claimed are dispersions containing (A) (specifically at 0.1-2 wt. %), for use in the cosmetic, food, detergent, agrochemical, industrial formulation, pharmaceutical, construction material, drilling fluid or radical polymerization sectors. (A) especially improves the expanding properties of the liquid phase(s) of gas-containing dispersions (i.e. foams), and also improves the shear resistance of the liquid phase(s) and minimizes or suppresses natural aging phenomena (e.g. drainage, Ostwald ripening and coalescence) in the foamed dispersions. More generally (A) have texturizing, expansion promoting, emulsifying, stabilizing and thickening properties. Typically (A) is used in foamed food products such as yogurt, ice cream, fruit puree, chocolate or sauces.

ADVANTAGE - (A) has good texturizing and stabilizing effects at a low concentration. The properties can be controlled by varying the nature and content of (II). In foodstuff applications suitable choice of (I) and (II) can provide excellent organoleptic properties (e.g. mouth-feel and smoothness), so that (A) can totally or completely replace conventional texturizing components such as fats.

EQUIVALENT-ABSTRACTS:

POLYMERS

Preferred Composition: (I) is a secondary wall heteroxylan having a highly branched structure, preferably an arabinoxylan. In particular

(I) is an arabinoxylan extracted from maize bran and having a main chain of xylose units, 45-60 wt. % of which are substituted by 25-40% arabinose groups, 5-10% galactose groups, 5-10% glucuronic acids and 0-1% residues of ferulic acid (or its salt). (I) has molecular weight 50000-500000 (preferably 100000-350000). (II) is starch, araban, alginate, carrageenan, cellulose (or its derivative), chitosan, dextran, dextrin, fructosan, galactan, galactomannan, gum arabic, pectin, ghatti gum, galactoside, xanthan gum, glucan, glycan, glycogen, hemicellulose, hyaluronic acid, inulin, lamarinarin, levan, cellulose microfibrils, mannan, pentosan, polydextrose or xylan, especially xanthan gum, carob, carrageenan, pectin or cellulose microfibrils. (A) contains (I) at 50-90 wt. % and (II) at 10-50 wt. %.

#### ORGANIC CHEMISTRY

Preferred Components: (II) include threose, erythrose, xylose, ribose, desoxyribose, rhamnose, fucose, glucosamine, galactosamine, N-acetyl-glucosamine or N-acetyl-galactosamine.

A foamed acidic yogurt was prepared from heat treated milk by adding 1.1 wt. % (based on milk) of a mixture of arabinoxylan and xanthan gum in weight ratio 10/1 under stirring. After stirring for a few minutes, the mixture was cooled to 43degreesC, inoculated, fermented for 6 hours and stored at 5degreesC overnight. After 24 hours the mixture was foamed using a mixer then stored in a refrigerator at 5degreesC. The degree of foaming was ca. 100% (i.e. 1 liter of gas in 1 liter of continuous phase). The appearance, texture and taste were at least equivalent to those of conventional gelatin-containing foamed yogurts. The foams were stable, and showed no signs of macroscopic destabilization (drainage) on storage for 28 days.

TITLE- COMPOSITION CONTAIN THICKEN GEL HYDROCOLLOID USEFUL TEXTURE  
TERMS: AGENT STABILISED DISPERSE FOAM FOOD COSMETIC PHARMACEUTICAL  
APPLY

DERWENT-CLASS: A11 A60 A97 B07 C07 D13 D21 E13 H01

CPI-CODES: A03-A; A12-V01; A12-W09; A12-W11; B04-A10G; B04-C02A; B04-C02B; B04-C02C; B04-C02D; B07-A02A; B10-A07; B12-M06; B14-R01; C04-A10G; C04-C02A; C04-C02B; C04-C02C; C04-C02D; C07-A02A; C10-A07; C12-M06; C14-R01; D03-H01J; D03-H01Q; D08-B; E07-A02H; H01-B06C;

CHEMICAL- Chemical Indexing M1 \*01\* Fragmentation Code M423 M430  
CODES: M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA0120 Registry Numbers  
184592

Chemical Indexing M1 \*02\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R01863 Registry Numbers  
107779

Chemical Indexing M1 \*03\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA04J1 Registry Numbers 86923

Chemical Indexing M1 \*04\* Fragmentation Code A220 A960  
C710 K0 K4 K421 L8 L815 L831 M423 M430 M630 M782 Q130 Q211  
Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific  
Compounds R24036 Registry Numbers 90114

Chemical Indexing M1 \*05\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R01852 Registry Numbers  
135415 90356

Chemical Indexing M1 \*06\* Fragmentation Code F012 F013  
F014 F016 F019 F123 F199 H1 H100 H121 H4 H404 H405 H421  
H422 H423 H424 H482 H483 H484 H581 H582 H583 H584 H589 H8  
K0 L8 L814 L821 L822 L823 L824 L834 M280 M311 M323 M342  
M373 M393 M413 M423 M430 M510 M521 M522 M523 M530 M540  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R03882 R07813 Registry  
Numbers 104328

Chemical Indexing M1 \*07\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R01857 R16573 Registry  
Numbers 92818

Chemical Indexing M1 \*08\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R03275 Registry Numbers 92830

Chemical Indexing M1 \*09\* Fragmentation Code J0 J011 J1  
J111 K0 L8 L811 L814 L815 L817 L831 L832 M423 M430 M782  
Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022  
R044 Specific Compounds R24037 Registry Numbers 96536

Chemical Indexing M1 \*10\* Fragmentation Code J0 J011 J1  
J111 J2 J211 K0 L8 L811 L815 L817 L818 L831 L832 M210 M211  
M272 M280 M281 M320 M423 M430 M520 M523 M530 M540 M782  
Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022  
R044 Specific Compounds R17032 Registry Numbers 103468

Chemical Indexing M1 \*11\* Fragmentation Code K0 L8 L814

L816 L831 L832 M423 M430 M782 Q130 Q211 Q212 Q220 Q412  
Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R16377 Registry Numbers 110577

Chemical Indexing M1 \*12\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA024U Registry Numbers 96778

Chemical Indexing M1 \*13\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA0JRQ Registry Numbers  
104395

Chemical Indexing M1 \*14\* Fragmentation Code F012 F013  
F014 F015 F016 F123 H4 H405 H424 H481 H8 M280 M311 M321  
M342 M373 M391 M413 M423 M430 M510 M521 M530 M540 M782  
Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022  
R044 Specific Compounds RA1FEL Registry Numbers 144111

Chemical Indexing M1 \*15\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA08WL Registry Numbers 95820

Chemical Indexing M1 \*16\* Fragmentation Code F012 F013  
F014 F015 F016 F123 H4 H405 H424 H481 H8 M280 M311 M321  
M342 M373 M391 M413 M423 M430 M510 M521 M530 M540 M782  
Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022  
R044 Specific Compounds RA01SW Registry Numbers 96195

Chemical Indexing M1 \*17\* Fragmentation Code L8 L814 L831  
M423 M430 M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616  
Q619 Q620 R022 R044 Specific Compounds R01872 R16574  
Registry Numbers 96300

Chemical Indexing M1 \*18\* Fragmentation Code J0 J011 J1  
J111 J3 J321 K0 L8 L814 L832 L834 M210 M211 M262 M280 M281  
M320 M423 M430 M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608  
Q616 Q619 Q620 R022 R044 Specific Compounds R03231 R06437  
Registry Numbers 97115

Chemical Indexing M1 \*19\* Fragmentation Code L8 L814 L818  
L831 M423 M430 M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608  
Q616 Q619 Q620 R022 R044 Specific Compounds R01873 R16575  
Registry Numbers 97982

Chemical Indexing M1 \*20\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA0Y4T Registry Numbers 99327

Chemical Indexing M1 \*21\* Fragmentation Code F012 F013  
F014 F015 F016 F019 F123 F199 H4 H405 H424 H481 H5 H521 H8  
M280 M311 M322 M342 M373 M392 M413 M423 M430 M510 M522  
M530 M540 M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616  
Q619 Q620 R022 R044 Specific Compounds RA0XRQ Registry  
Numbers 100074

Chemical Indexing M1 \*22\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA0RON Registry Numbers  
110651

Chemical Indexing M2 \*23\* Fragmentation Code H4 H403 H483  
H8 J4 J471 K0 L8 L818 L821 L831 M280 M313 M321 M332 M344  
M349 M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220  
Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R11224 Registry Numbers 108830

Chemical Indexing M2 \*24\* Fragmentation Code H4 H403 H483  
H8 J4 J471 K0 L8 L818 L821 L831 M280 M313 M321 M332 M344  
M349 M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220  
Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
RA0DJJ Registry Numbers 94447

Chemical Indexing M2 \*25\* Fragmentation Code H4 H404 H484  
H8 J4 J471 K0 L8 L818 L821 L831 M280 M314 M321 M332 M344  
M349 M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220  
Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R00173 Registry Numbers 129626 56178

Chemical Indexing M2 \*26\* Fragmentation Code H4 H404 H484  
H8 J4 J471 K0 L8 L812 L821 L831 M280 M314 M321 M332 M344  
M349 M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220  
Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R00031 Registry Numbers 105632 196604

Chemical Indexing M2 \*27\* Fragmentation Code H4 H403 H483  
H8 J4 J471 K0 L8 L813 L821 L831 M280 M314 M321 M332 M344  
M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220 Q412  
Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R15999 Registry Numbers 133431

Chemical Indexing M2 \*28\* Fragmentation Code H4 H404 H484  
H8 J4 J471 K0 L8 L817 L821 L831 M280 M315 M321 M331 M344  
M349 M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220  
Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R01620 Registry Numbers 105577

Chemical Indexing M2 \*29\* Fragmentation Code H4 H404 H484

H8 J4 J471 K0 L8 L817 L821 L831 M280 M315 M321 M331 M344  
M349 M381 M391 M416 M430 M620 M782 M800 Q130 Q211 Q212  
Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific  
Compounds R10016 Registry Numbers 95665

Chemical Indexing M2 \*30\* Fragmentation Code H1 H100 H181  
H4 H404 H484 H8 J4 J471 K0 L8 L814 L821 L834 M280 M315  
M321 M332 M344 M349 M381 M391 M416 M430 M620 M782 Q130  
Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022 R044  
Specific Compounds R01615 Registry Numbers 144373 96223

Chemical Indexing M2 \*31\* Fragmentation Code H1 H100 H181  
H4 H404 H484 H8 J4 J471 K0 L8 L815 L821 L834 M280 M315  
M321 M332 M344 M349 M381 M391 M416 M430 M620 M782 Q130  
Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022 R044  
Specific Compounds R13591 Registry Numbers 132883 95821

Chemical Indexing M2 \*32\* Fragmentation Code D013 D016  
D111 G013 G019 G100 H4 H402 H442 H8 J5 J521 L9 L942 M1  
M113 M119 M150 M280 M320 M412 M430 M511 M520 M532 M540  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R00411 Registry Numbers 4856

Chemical Indexing M3 \*01\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA0120 Registry Numbers  
184592

Chemical Indexing M3 \*02\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R01863 Registry Numbers  
107779

Chemical Indexing M3 \*03\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA04J1 Registry Numbers 86923

Chemical Indexing M3 \*04\* Fragmentation Code A220 A960  
C710 K0 K4 K421 L8 L815 L831 M423 M430 M630 M782 Q130 Q211  
Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific  
Compounds R24036 Registry Numbers 90114

Chemical Indexing M3 \*05\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R01852 Registry Numbers  
135415 90356

Chemical Indexing M3 \*06\* Fragmentation Code F012 F013  
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H422 H423 H424 H482 H483 H484 H581 H582 H583 H584 H589 H8  
K0 L8 L814 L821 L822 L823 L824 L834 M280 M311 M323 M342  
M373 M393 M413 M423 M430 M510 M521 M522 M523 M530 M540  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R03882 R07813 Registry  
Numbers 104328

Chemical Indexing M3 \*07\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R01857 R16573 Registry  
Numbers 92818

Chemical Indexing M3 \*08\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds R03275 Registry Numbers 92830

Chemical Indexing M3 \*09\* Fragmentation Code J0 J011 J1  
J111 K0 L8 L811 L814 L815 L817 L831 L832 M423 M430 M782  
Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022  
R044 Specific Compounds R24037 Registry Numbers 96536

Chemical Indexing M3 \*10\* Fragmentation Code J0 J011 J1  
J111 J2 J211 K0 L8 L811 L815 L817 L818 L831 L832 M210 M211  
M272 M280 M281 M320 M423 M430 M520 M523 M530 M540 M782  
Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022  
R044 Specific Compounds R17032 Registry Numbers 103468

Chemical Indexing M3 \*11\* Fragmentation Code K0 L8 L814  
L816 L831 L832 M423 M430 M782 Q130 Q211 Q212 Q220 Q412  
Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R16377 Registry Numbers 110577

Chemical Indexing M3 \*12\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA024U Registry Numbers 96778

Chemical Indexing M3 \*13\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA0JRQ Registry Numbers  
104395

Chemical Indexing M3 \*14\* Fragmentation Code F012 F013  
F014 F015 F016 F123 H4 H405 H424 H481 H8 M280 M311 M321  
M342 M373 M391 M413 M423 M430 M510 M521 M530 M540 M782  
Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022  
R044 Specific Compounds RA1FEL Registry Numbers 144111

Chemical Indexing M3 \*15\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620

R022 R044 Specific Compounds RA08WL Registry Numbers 95820

Chemical Indexing M3 \*16\* Fragmentation Code F012 F013  
F014 F015 F016 F123 H4 H405 H424 H481 H8 M280 M311 M321  
M342 M373 M391 M413 M423 M430 M510 M521 M530 M540 M782  
Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022  
R044 Specific Compounds RA01SW Registry Numbers 96195

Chemical Indexing M3 \*17\* Fragmentation Code L8 L814 L831  
M423 M430 M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616  
Q619 Q620 R022 R044 Specific Compounds R01872 R16574  
Registry Numbers 96300

Chemical Indexing M3 \*18\* Fragmentation Code J0 J011 J1  
J111 J3 J321 K0 L8 L814 L832 L834 M210 M211 M262 M280 M281  
M320 M423 M430 M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608  
Q616 Q619 Q620 R022 R044 Specific Compounds R03231 R06437  
Registry Numbers 97115

Chemical Indexing M3 \*19\* Fragmentation Code L8 L814 L818  
L831 M423 M430 M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608  
Q616 Q619 Q620 R022 R044 Specific Compounds R01873 R16575  
Registry Numbers 97982

Chemical Indexing M3 \*20\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA0Y4T Registry Numbers 99327

Chemical Indexing M3 \*21\* Fragmentation Code F012 F013  
F014 F015 F016 F019 F123 F199 H4 H405 H424 H481 H5 H521 H8  
M280 M311 M322 M342 M373 M392 M413 M423 M430 M510 M522  
M530 M540 M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616  
Q619 Q620 R022 R044 Specific Compounds RA0XRQ Registry  
Numbers 100074

Chemical Indexing M3 \*22\* Fragmentation Code M423 M430  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620  
R022 R044 Specific Compounds RA0RON Registry Numbers  
110651

Chemical Indexing M3 \*23\* Fragmentation Code H4 H403 H483  
H8 J4 J471 K0 L8 L818 L821 L831 M280 M313 M321 M332 M344  
M349 M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220  
Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R11224 Registry Numbers 108830

Chemical Indexing M3 \*24\* Fragmentation Code H4 H403 H483  
H8 J4 J471 K0 L8 L818 L821 L831 M280 M313 M321 M332 M344  
M349 M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220

Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
RA0DJJ Registry Numbers 94447

Chemical Indexing M3 \*25\* Fragmentation Code H4 H404 H484  
H8 J4 J471 K0 L8 L818 L821 L831 M280 M314 M321 M332 M344  
M349 M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220  
Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R00173 Registry Numbers 129626 56178

Chemical Indexing M3 \*26\* Fragmentation Code H4 H404 H484  
H8 J4 J471 K0 L8 L812 L821 L831 M280 M314 M321 M332 M344  
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Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R00031 Registry Numbers 105632 196604

Chemical Indexing M3 \*27\* Fragmentation Code H4 H403 H483  
H8 J4 J471 K0 L8 L813 L821 L831 M280 M314 M321 M332 M344  
M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220 Q412  
Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R15999 Registry Numbers 133431

Chemical Indexing M3 \*28\* Fragmentation Code H4 H404 H484  
H8 J4 J471 K0 L8 L817 L821 L831 M280 M315 M321 M331 M344  
M349 M381 M391 M416 M430 M620 M782 Q130 Q211 Q212 Q220  
Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific Compounds  
R01620 Registry Numbers 105577

Chemical Indexing M3 \*29\* Fragmentation Code H4 H404 H484  
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M349 M381 M391 M416 M430 M620 M782 M800 Q130 Q211 Q212  
Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022 R044 Specific  
Compounds R10016 Registry Numbers 95665

Chemical Indexing M3 \*30\* Fragmentation Code H1 H100 H181  
H4 H404 H484 H8 J4 J471 K0 L8 L814 L821 L834 M280 M315  
M321 M332 M344 M349 M381 M391 M416 M430 M620 M782 Q130  
Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022 R044  
Specific Compounds R01615 Registry Numbers 144373 96223

Chemical Indexing M3 \*31\* Fragmentation Code H1 H100 H181  
H4 H404 H484 H8 J4 J471 K0 L8 L815 L821 L834 M280 M315  
M321 M332 M344 M349 M381 M391 M416 M430 M620 M782 Q130  
Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620 R022 R044  
Specific Compounds R13591 Registry Numbers 132883 95821

Chemical Indexing M3 \*32\* Fragmentation Code D013 D016  
D111 G013 G019 G100 H4 H402 H442 H8 J5 J521 L9 L942 M1  
M113 M119 M150 M280 M320 M412 M430 M511 M520 M532 M540  
M782 Q130 Q211 Q212 Q220 Q412 Q453 Q608 Q616 Q619 Q620

R022 R044 Specific Compounds R00411 Registry Numbers 4856

UNLINKED- ; 0031U ; 0173U ; 0411U ; 1615U ; 1620U ; 1852U ;  
DERWENT- 1857U ; 1863U ; 1872U ; 1873U  
REGISTRY-  
NUMBERS:

ENHANCED- Polymer Index [1.1] 018 ; G3634\*R D01 D03 D11 D10 D23  
POLYMER- D22 D31 D42 D76 F24 F34 H0293 P0599 G3623 G3703; G3634  
INDEXING: D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D86 F24 F29  
F26 F34 H0293 P0599 G3623 R01852 90356; G3623 D01 D23  
D22 D31 D42 D50 D61 D76 D86 F24 F28 F26 F34 F36 F35  
H0293 P0599 R07226 133925; G3623 D01 D03 D05 D11 D10  
D23 D22 D24 D31 D32 D42 D46 D50 D60 D76 D86 D92 F24  
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